

**State of California  
AIR RESOURCES BOARD  
Executive Order G-70-167**

**Certification of Bakersfield Tank Company  
Enviro-Vault Aboveground Filling/Dispensing  
Vapor Recovery System**

WHEREAS, the Air Resources Board (the "Board") has established, pursuant to California Health and Safety Code Sections 39600, 39601 and 41954, certification procedures for systems designed to control gasoline vapor emissions displaced during the filling of service station storage tanks ("Phase I vapor recovery systems") and for systems designed to control gasoline vapor emissions from motor vehicle fueling operations ("Phase II vapor recovery systems") in its "Certification Procedures for Gasoline Vapor Recovery Systems at Service Stations", amended December 4, 1981 (the "Certification Procedures"), and incorporated by reference in Title 17, California Code of Regulations, Section 94001;

WHEREAS, the Board has established, pursuant to California Health and Safety Code Sections 39600, 39601, and 41954, test procedures to determine compliance of Phase I and Phase II vapor recovery systems with emission standards in its "Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations", amended September 1, 1982 (the "Test Procedures"), incorporated by reference in Title 17, California Code of Regulations, Section 94000;

WHEREAS, the Enviro-Vault aboveground gasoline storage and dispensing systems are currently certified by Executive Orders G-70-129-A issued on November 8, 1991 and G-70-129-B issued on July 17, 1992, and granted to BRE Products, Incorporated based on certification testing conducted on July 12-13, 1990 and receipt of the required approvals from the Division of Measurement Standards, Cal/OSHA and the State Fire Marshal;

WHEREAS, the Enviro-Vault system is a product that was jointly developed by BRE Products, Incorporated and Bakersfield Tank Company, and manufactured by Bakersfield Tank Company;

WHEREAS, the Board of Directors of BRE Products, Incorporated decided to dissolve the corporation and transfer all interest and ownership in the "Enviro-Vault" product to the Bakersfield Tank Company;

WHEREAS, Section VIII-A of the Certification Procedures provides that the Executive Officer shall issue an order of certification if he or she determines that a vapor recovery system conforms to all of the requirements set forth in Certification Procedures Sections I through VII;

WHEREAS, on April 15, 1994 the Air Resources Board Executive Officer, pursuant to California Health and Safety Code sections 39515 and 39516, delegated to the Chief, Compliance Division full authority to approve and grant Executive Orders certifying integral Phase I and Phase II aboveground systems in accordance with California Health and Safety Code section 41954; and

WHEREAS, I, James J. Morgester, Chief of the Compliance Division of the California Air Resources Board, have determined that the Enviro-Vault aboveground storage tank vapor recovery system, when used with ARB Certified Phase I two-point balance vapor recovery components and Phase II balance vapor recovery components, conforms with all the requirements set forth in Sections I through VII of the Certification Procedures;

NOW, THEREFORE, IT IS HEREBY ORDERED that this certification applies to the Bakersfield Tank Company Enviro-Vault aboveground storage vapor recovery systems for gasoline, methanol and gasoline/methanol blended fuels. The systems certified by this order may be used on single or split product rectangular tanks between 250 and 12,000 gallons total capacity which utilize the same geometric configuration and design shown in Exhibit 1 (attached), and on single or split product cylindrical tanks between 500 and 12,000 gallons total capacity which utilize the same geometric configuration and design as shown in Exhibit 2 (attached).

IT IS FURTHER ORDERED that any emergency vent installed on the tanks be leak free at the operating pressure of the tank when tested in accordance with ARB test methods as specified in Title 17, California Code of Regulations.

IT IS FURTHER ORDERED that the use of Air Resources Board certified Phase I two-point balance system vapor recovery components and Phase II balance system vapor recovery components shall be a condition of the certification. Air Resources Board certified Phase I components for gasoline service are listed in Exhibits 1 through 3 of Executive Order G-70-97-A, Exhibits 1 and 2 of Executive Order G-70-102-A, or Exhibits 1 and 2 of Executive Order G-70-142-A. Air Resources Board certified balance system Phase II components are listed in the Executive Order G-70 series.

IT IS FURTHER ORDERED that the system components for methanol and gasoline/methanol blended fuels be constructed with methanol resistant materials and that specifically the OPW 11VF-M85 nozzle, the Goodyear Premium hose with the methanol resistant inner hose and the Tuthill Corporation Fill-Rite Model 700 series methanol computable pumps be used. Air Resources Board certified Phase I and Phase II components from Executive Order G-70-110 series may be interchanged with the specified components.

IT IS FURTHER ORDERED that the Phase I two-point balance system components and piping configuration used to connect the cargo truck bulk delivery line and vapor return line to the storage tank fill line and vapor recovery line shall be consistent with Air Resources Board Executive Order G-70-97 series, G-70-102 series or Executive Order G-70-142-series and that any liquid leak upon disconnecting the delivery line shall be no more than 10 ml per disconnect computed from the average of three disconnect operations.

IT IS FURTHER ORDERED that in order to prevent spitback or condensate from blocking the vapor path between the vehicle fill pipe and the storage tank headspace, the routing of the coaxial hose shall be consistent with the configurations shown in exhibits 4 through 11a in Air Resources Board Executive Order G-70-52-AM, with the exception that the highest point in the vapor return path must be above the top of the storage tank and there shall be no liquid trap in the vapor path between the highest point in the vapor return path and the storage tank vapor headspace during fuel dispensing. Furthermore, there shall be no liquid trap in the vapor path between the vehicle fill pipe and the highest point in the vapor return path during fuel dispensing unless the coaxial hose is equipped with a liquid removal system with the liquid pickup located at the liquid trap.

IT IS FURTHER ORDERED that an Air Resources Board certified P/V valve shall be installed on the tank vent and that the valve have a rated pressure relief setting of no more than 2.5 inches of water column gage. The installed P/V valve shall extend to a minimum height of 12 feet above grade.

IT IS FURTHER ORDERED that a minimum of 6 inches of concrete insulation be installed between the interior holding tanks and the exterior containment tank as shown in Exhibit 1 and Exhibit 2.

IT IS FURTHER ORDERED that the general exterior of the storage tanks be painted white.

IT IS FURTHER ORDERED that compliance with the rules and regulations of the local air pollution control district with jurisdiction over the location where the system is installed, shall be made a condition of this certification.

IT IS FURTHER ORDERED that when bulk deliveries are being made by a cargo truck, rather than a bobtail truck, the truck pumping system be operated at a steady rate to limit the amount of vapor growth associated with a varied pumping rate. When clearing fuel from the pumping system, following fuel delivery, the operator shall likewise maintain a steady pumping rate.

IT IS FURTHER ORDERED that prior to using any Bakersfield Tank Company Enviro-Vault aboveground system for storage of gasoline the complete vapor recovery system will be leak checked at 150 percent of the maximum working pressure of the tank (P/V valve setting), or 5 inches of water column pressure, whichever is greater, and verified to be vapor tight. Thereafter, the complete system shall be checked once a year to ensure a vapor tight system and proper operation of the vapor recovery system. Leak checks shall be conducted in accordance with ARB test methods as specified in Title 17, California Code of Regulations.

IT IS FURTHER ORDERED that the tank and associated piping and other equipment not specifically listed as approved Phase I equipment in Exhibits 1 through 3 of Executive Order G-70-97-A, Executive Order G70-102 series, Executive Order G-70-110 series or Executive Order G70-142 series nor specifically listed as approved Phase II equipment in Executive Order G-70 series shall comply with the rules and regulations of the local fire officials with jurisdiction over the location where the system is installed.

IT IS FURTHER ORDERED that compliance with all applicable certification requirements and rules and regulations of the Division of Measurement Standards, the Office of the State Fire Marshal, and the Division of Occupational Safety and Health of the Department of Industrial Relations shall be made a condition of this certification.

IT IS FURTHER ORDERED that any alteration of the equipment, parts, design, or operation of the configurations certified hereby, is prohibited, and deemed inconsistent with this certification, unless such alteration has been approved by the Executive Officer or his or her designee.

IT IS FURTHER ORDERED that this Executive Order shall supersede Executive Order G-70-129-A dated November 8, 1991 and Executive Order G-70-129-B dated July 17, 1992.

Executed this 9<sup>TH</sup> day of JANUARY 1996 at Sacramento, California.

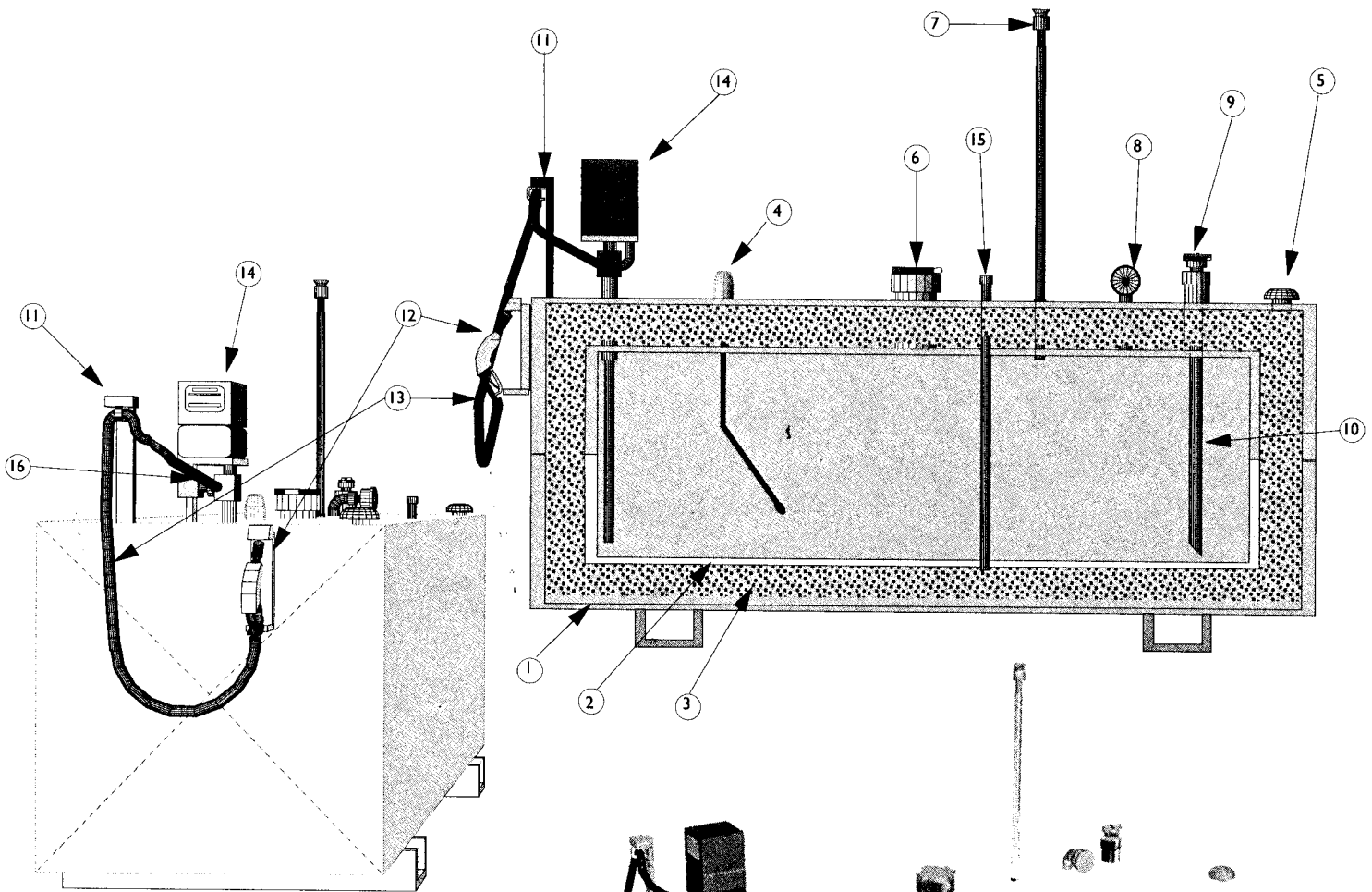


James J. Morgester, Chief  
Compliance Division

# Exhibit I

## Executive Order G-70-167

### Bakersfield Tank Company Enviro-Vault Aboveground Filling/Dispensing Vapor Recovery System



#### TANK LEGEND

NO.	DESCRIPTION
1	OUTER STEEL TANK
2	INNER STEEL TANK
3	LIGHTWEIGHT INSULATION
4	LEVEL GAUGE
5	CONCRETE INLET PORT
6	INNER TANK EMERGENCY VENT
7	PRESSURE VACUUM (P/V) VENT
8	VAPOR ADAPTOR AND CAP
9	FILL ADAPTOR AND CAP
10	SUBMERGED FILL TUBE
11	HOSE RETRACTOR
12	NOZZLE
13	COAXIAL HOSE
14	PUMP
15	ANNULAR SPACE MONITORING TUBE
16	COAXIAL HOSE ADAPTOR

#### Notes:

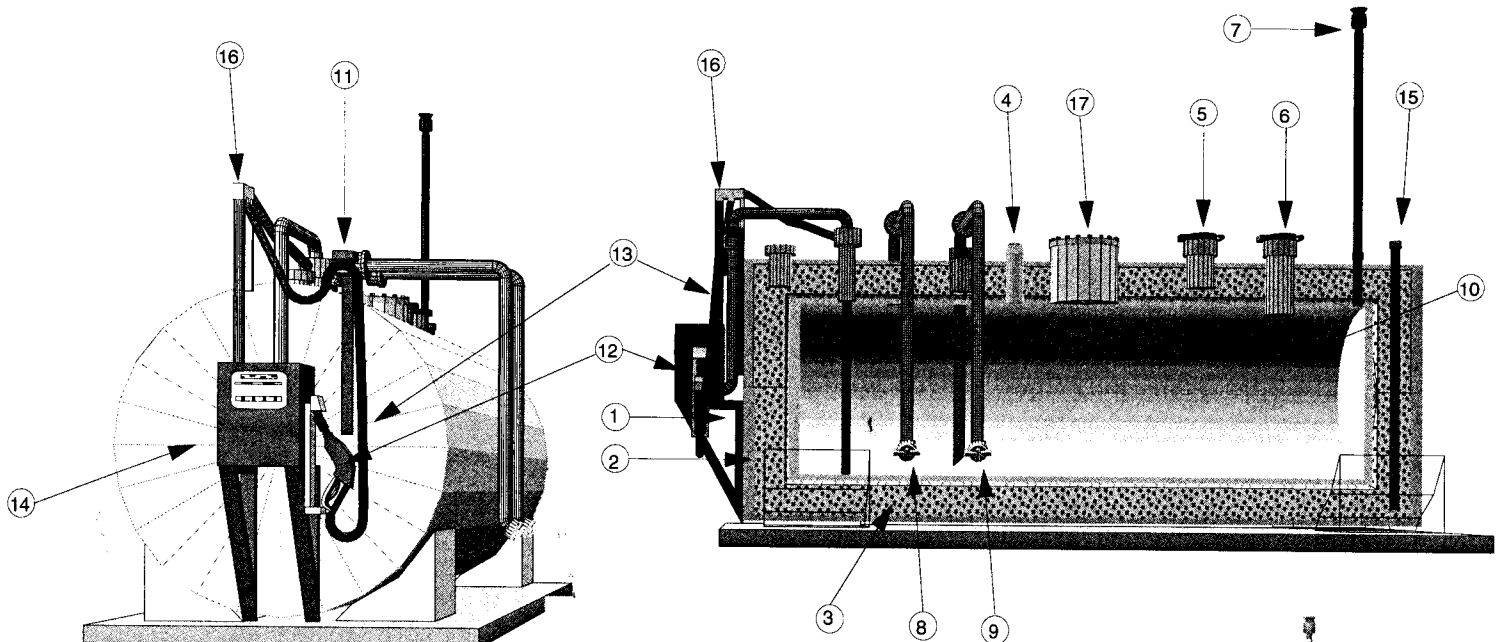
Tank construction shall include a minimum of 6 inches of concrete insulation between the interior holding tank and the exterior containment tank.

The tank vent line shall extend to a minimum height of 12 feet above grade.

## Exhibit 2

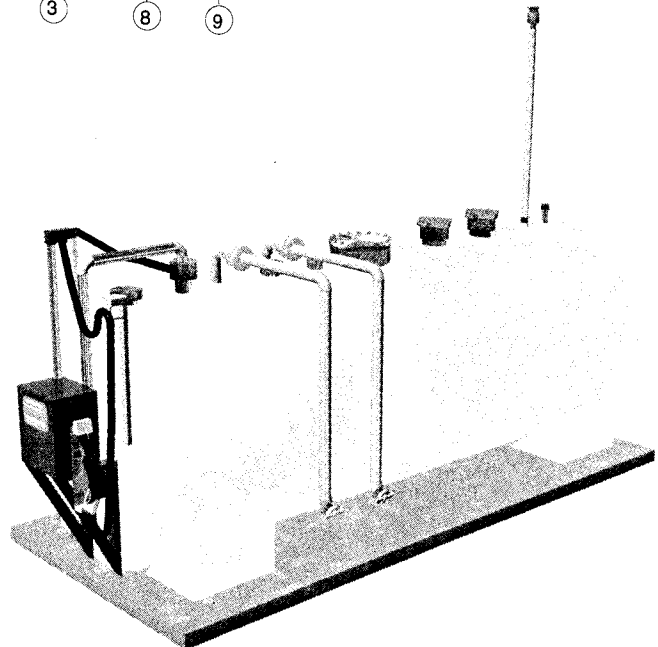
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#### **TANK LEGEND**

NO.	DESCRIPTION
1	OUTER STEEL TANK
2	INNER STEEL TANK
3	CONCRETE INSULATION
4	GAUGE ACCESS
5	CONCRETE INLET PORT
6	INNER TANK EMERGENCY VENT
7	PRESSURE VACUUM (P/V) VENT
8	VAPOR ADAPTOR AND CAP
9	FILL ADAPTOR AND CAP
10	SUBMERGED FILL TUBE
11	HOSE RETRACTOR
12	NOZZLE
13	COAXIAL HOSE
14	PUMP
15	ANNULAR SPACE MONITORING TUBE
16	COAXIAL HOSE ADAPTOR
17	MANHOLE (STD. ON 5000 GAL. & LARGER)



#### Notes:

Tank construction shall include a minimum of 6 inches of concrete insulation between the interior holding tank and the exterior containment tank.

The tank vent line shall extend to a minimum height of 12 feet above grade.